

RoHS Passive Optical Network SFP



AI Overview

RoHS PON SFP modules are environmentally compliant optical transceivers designed for GPON and FTTx networks, supporting asymmetric data rates up to 2.5Gbps upstream and 1.25Gbps downstream over single-mode fiber.

Overview RoHS-compliant PON SFP transceivers are Small Form Factor Pluggable (SFP) modules that meet the Restriction of Hazardous Substances (RoHS) directive, ensuring they are free from harmful materials like lead, mercury, and cadmium. These modules are widely used in Gigabit Passive Optical Networks (GPON) and other fiber-to-the-x (FTTx) deployments, including FTTH, FTTB, FTTC, and FTTc scenarios.

Key Specifications

- Data Rates:** Typically asymmetric, e.g., 2.5Gbps downstream / 1.25Gbps upstream, or 2.488Gbps / 1.244Gbps depending on the module.
- Link Distance:** Up to 20 km over single-mode fiber (SMF) using SC or SC APC connectors.
- Wavelengths:** Commonly 1490nm for downstream and 1310nm for upstream transmission.
- Temperature Range:** Many modules operate reliably from -40°C to 85°C, suitable for indoor and outdoor environments.
- Digital Optical Monitoring (DOM):** Provides real-time monitoring of parameters such as optical power, temperature, and voltage.
- Compliance Standards:** Fully compliant with RoHS, SFP MSA, SFF-8472, and ITU-T G.984.2 standards.
- Advantages**
 - Hot-Pluggable:** Can be inserted or removed without powering down the host device.
 - Compact Form Factor:** Fits standard SFP slots, allowing flexible deployment in OLTs, ONUs, and switches.
 - Environmentally Friendly:** RoHS compliance ensures reduced environmental impact and safer handling.
 - Versatile Applications:** Ideal for GPON systems, business services, wireless backhaul, and enterprise FTTx networks.

Additional Notes Some RoHS-compliant SFP modules also support Gigabit Ethernet and Fibre Channel applications, with features like limiting receivers and loss-of-signal (LOS) detection for reliable network operation. Modules from manufacturers like Finisar and FS provide high performance, lead-free...

Article Content

PAN-SFP-PLUS-CU-7M

Please send me the PAN-SFP-PLUS-CU-7M - Palo Alto Compatible 7 Metre 10G SFP+ Passive Direct Attach Copper Twinax Cable datatsheet.

Passive Optical Networks

Semtech's PON-X family delivers high-performance analog laser drivers, TIAs and CDR products for passive optical networks. Supporting EPON, GPON, 10G-50G PON standards for FTTH, FTTB and

Understanding the Key Variations: Active vs. Passive

In modern networking environments, the choice between active and passive SFP+ (Small Form-factor Pluggable) cables plays a crucial role in

Arista Optics Modules and Cables

To accommodate an increasing spectrum of applications, Arista offers a wide choice of OSFP, QSFP-DD, QSFP, SFP, SFP-DD and DSFP transceivers and cables that comply with industry standards,

810-000077-0AE 1 .pdf

Palo Alto Networks Product Description PAN Part Number (Internal) Manufacturer Part Number RoHS HTS ECCN License PAN-SFP-SX

Search results for: 434 Fiber Optic Transceivers - Mouser

434 Fiber Optic Transceivers Products (45) Images Newest Products Results: 45 Smart Filtering

Fortinet Transceivers Data Sheet

Fortinet transceivers support various interfaces including: SFP, SFP+, DAC, and newer high-speed standards including SFP28, SFP56, QSFP+, CFP2, QSFP28, QSFP56, and QSFP-DD.

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

721064-B21 HPE® Compatible DAC QSFP+ to 4 SFP+ - ATGBICS

ATGBICS HPE® Compatible 721064-B21 40GBase-CU QSFP+ to 4 SFP+ Passive Direct Attach Cable operates over Passive Copper with a cable length of 3m. This product operates within a commercial

AN-2038_RoHS Compliant_Transceivers 2019-0807_RevE

The application of specific exemptions to a specific Finisar product is defined by the RoHS Certificate of Compliance for that product, and supported by a detailed product material content declaration.

RoHS Compliant SFP/XFP Part Numbers

The document lists specifications for various small form-factor pluggable (SFP) and 10 gigabit small form-factor pluggable (XFP) transceiver modules, including part

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

JNP-SFP-25G-DAC-3M

This product is 100% compatible with all Juniper products that list JNP-SFP-25G-DAC-3M as a support Direct Attach Cable. Rigorous production testing ensures the best out-of-the-box installation

Passive Optical Networks: Cabling Considerations and

Passive Optical Network (PON) design gives you the flexibility to right-size connectivity across the enterprise LAN – inside buildings and across an

SFP Optic Module RoHS Compliant 10GB/S 10km

SFP Optic Module RoHS Compliant 10GB/S 10km Reach 1270/1330nm SFP+ Bi-Directional Transceiver, Find Details and Price about SFP

QFX-SFP-DAC-3M

This product is 100% compatible with all Juniper products that list QFX-SFP-DAC-3M as a support Direct Attach Cable. Rigorous production testing ensures the best out-of-the-box installation experience,

10G SFP+ Cable and Transceiver Modules Data Sheet

SFP-10G-T-100 The SFP-10G-T-100 transceiver provides 10GBase-T throughput up to 100m over cat6a/cat7 copper cable. This transceiver is compliant with IEEE 802.3az, SFF-8431, SFF-8432 and

EX-SFP-10GE-DAC-5M

This product is 100% compatible with all Juniper products that list EX-SFP-10GE-DAC-5M as a support Direct Attach Cable. Rigorous production testing ensures the best out-of-the-box installation

10G SFP+ Direct Attach Copper Datasheet | FS

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fiber Channel applications. SFP+ copper modules allow hardware manufactures to achieve

Axiom SFP Transceiver 1000 Mbit/s Fiber Optic Module - TRINCOS

Axiom SFP transceiver module with 1000 Mbit/s data rate, fiber optic type, and RoHS compliance. Ideal for enhancing network performance. Order today.

Everything You Need to Know About GPON SFP

Telecommunications widely adopt GPON SFP modules because they help provide broadband services for residential and business customers.

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

Discover how SFP optical transceivers are driving AI data centers and FTTX networks in 2026. Weunion's expert guide covers 400G, 800G, BiDi, DAC vs AOC, and compatibility strategies

10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi

10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi-Mode 850nm Dual-Fiber LC From China Factory Direct Sales

SFP+ Cables

CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables, CX4 Cables and Fiber Optic Transceivers.

SFP, SFP+, And QSFP Form Factor Standards

EXECUTIVE SUMMARY This document serves as the definitive technical reference for the Small Form-Factor Pluggable (SFP), Enhanced Small Form-Factor Pluggable (SFP+), and Quad Small Form

10321 Extreme Enterasys® Compatible DAC QSFP+ to 4 SFP+

ATGBICS Extreme Enterasys® Compatible 10321 40GBase-CU QSFP+ to 4 SFP+ Passive Direct Attach Cable operates over Passive Copper with a cable length of 3m. This product operates within a

RoHS-6 Compliant 10Gb/s 10km Single Mode Bidirectional SFP

The standard SFP serial ID provides access to identification information that describes the transceiver's capabilities, standard interfaces, manufacturer, and other information.

Contact Us

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